

## SEQUENCE LISTING

<110> PTC Therapeutics, Inc.

<120> METHODS FOR IDENTIFYING COMPOUNDS THAT MODULATE UNTRANSLATED  
REGION-DEPENDENT GENE EXPRESSION AND METHODS OF USING SAME

<130> 10589-012-228

<140>  
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<150> 60/441,637  
<151> 2003-01-21

<160> 94

<170> PatentIn version 3.2

<210> 1  
<211> 14  
<212> DNA  
<213> Artificial

<220>  
<223> Description of Artificial Sequence: Motif

<220>  
<221> misc\_feature  
<222> 3, 7, 8, 11  
<223> n = a, t, c, or g

<220>  
<221> misc\_feature  
<222> (7)..(8)  
<223> This represents one form of the sequence as described, other forms  
described may have up to five nucleotides in this variable region

<400> 1  
ggntggngg ntgg 14

<210> 2  
<211> 14  
<212> DNA  
<213> Artificial

<220>  
<223> Description of Artificial Sequence: Motif

<220>  
<221> misc\_feature  
<222> 3, 4, 7, 8, 11, 12  
<223> n = a, t, g or c

<220>  
<221> misc\_feature  
<222> (2)..(12)

<223> This represents one form of the sequence as described, other forms described have longer variable regions, typical is 2 - 10 nucleotides

<400> 2  
gganggnngg nngg 14

<210> 3  
<211> 14  
<212> DNA  
<213> Artificial

<220>  
<223> Description of Artificial Sequence: Motif

<220>  
<221> misc\_feature  
<222> 3, 4, 7, 8, 11, 12  
<223> n = a, t, g, or c

<220>  
<221> misc\_feature  
<222> (2)..(12)  
<223> This represents one form of the sequence as described, other forms described have longer variable regions, typical is 2 - 10 nucleotides

<400> 3  
ggnnggnngg nngg 14

<210> 4  
<211> 19  
<212> RNA  
<213> Artificial

<220>  
<223> Description of Artificial Sequence: Motif

<400> 4  
ccccrccuc ucccccaag 19

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<211> 152  
<212> DNA  
<213> Homo sapiens

<400> 5  
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gacgccacat cccctgacaa gctgccaggc aggttctctt cctctcacat actgaccac 120  
ggctccacc tctctccct ggaaaggaca cc 152

<210> 6  
<211> 792  
<212> DNA

<213> Homo sapiens

<400> 6

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ccctccttca gacaccctca acctcttctg gctcaaaaag agaattgggg gcttaggggc	120
ggaacccaag cttagaactt taagcaacaa gaccaccact tcgaaacctg ggattcagga	180
atgtgtggcc tgcacagtga attgctggca accactaaga attcaaactg gggcctccag	240
aactcactgg ggcctacagc tttgatccct gacatctgga atctggagac cagggagcct	300
ttgggttctgg ccagaatgct gcaggacttg agaagacctc acctagaaat tgacacaagt	360
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ttattattta tttatttaca gatgaatgta tttatttggg agaccggggg atcctggggg	540
acccaatgta ggagctgcct tggtcagac atgttttccg tgaaaacgga gctgaacaat	600
aggctgttcc catgtagccc cctggcctct gtgccttctt ttgattatgt tttttaaaat	660
atztatctga ttaagttgtc taaacaatgc tgatttgggtg accaactgtc actcattgct	720
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<210> 7

<211> 21

<212> RNA

<213> Artificial

<220>

<223> Description of Artificial Sequence: Motif

<400> 7

auuuauuuau uuauuuauuu a	21
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<210> 8

<211> 40

<212> DNA

<213> Homo sapiens

<400> 8

kctggaggat gtggctgcag agcctgctgc tcttgggcac	40
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<210> 9

<211> 289

<212> DNA

<213> Homo sapiens

<400> 9

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 accctgatac aggcattggca gaagaatggg aatattttat actgacagaa atcagtaata 180  
 tttatatatt tatattttta aaatatattat ttattttatt atttaagttc atattccata 240  
 tttattcaag atgtttttacc gtaataatta ttattaaaaa tatgcttct 289

<210> 10  
 <211> 21  
 <212> RNA  
 <213> Artificial

<220>  
 <223> Description of Artificial Sequence: Motif

<400> 10  
 auuuuuuuuu uuauuuuuuu a 21

<210> 11  
 <211> 47  
 <212> DNA  
 <213> Homo sapiens

<400> 11  
 atcactctct ttaatcacta ctcacattaa cctcaactcc tgccaca 47

<210> 12  
 <211> 307  
 <212> DNA  
 <213> Homo sapiens

<400> 12  
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 aattttatat ttattgttga atgtatgggt gctacctatt gtaactatta ttcttaatct 120  
 taaaactata aatatggatc ttttatgatt ctttttgtaa gccctagggg ctctaaaatg 180  
 gtttacctta tttatcccaa aaatatattat tattatgttg aatgttaa atagtatcta 240  
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 aaaaaaa 307

<210> 13  
 <211> 15  
 <212> RNA  
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<220>  
 <223> Description of Artificial Sequence: Motif

<220>  
 <221> misc\_feature  
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<223> n = a, t, g or c

<400> 13  
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15

<210> 14  
<211> 62  
<212> DNA  
<213> Homo sapiens

<400> 14  
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ct 62

<210> 15  
<211> 427  
<212> DNA  
<213> Homo sapiens

<400> 15  
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gtccactggg cacagaactt atgttggttct ctatggagaa ctaaaagtat gagcgtagg 120  
acactatattt aattatattt aatttatttaa tatttaaata tgtgaagctg agttaattta 180  
tgtaagtcatt atttatattt ttaagaagta ccacttgaaa cattttatgt attagttttg 240  
aaataataat ggaaagtggc tatgcagttt gaatatcctt tgtttcagag ccagatcatt 300  
tcttggaag tgtaggctta cctcaaataa atggctaact tatacatatt tttaaagaaa 360  
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aaaattc 427

<210> 16  
<211> 15  
<212> RNA  
<213> Artificial

<220>  
<223> Description of Artificial Sequence: Motif

<220>  
<221> misc\_feature  
<222> (1)..(15)  
<223> n = a, t, g or c

<400> 16  
nauuuuuuuu uuuan

15

<210> 17  
<211> 701  
<212> DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 17

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gcgcggcgctg agccctcccc cttgggatcc cgcagctgac cagtcgcgct gacggacaga 180  
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gtgtgcgcag acagtgtctc agcgcgcgcg ctccccagcc ctggcccggc ctcgggccgg 600  
gaggaagagt agctcgccga ggcgccgagg agagcgggccc gcccacagc ccgagccgga 660  
gagggacgcg agccgcgcgc cccggtcggg cctccgaaac c 701

&lt;210&gt; 18

&lt;211&gt; 1892

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 18

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cgacagaaca gtccttaatc cagaaacctg aaatgaagga agaggagact ctgcgcagag 180  
cactttgggt ccggagggcg agactccggc ggaagcattc ccgggcgggt gaccagcac 240  
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gaagattaga gagttttatt tctgggattc ctgtagacac acccaccac atacatacat 360  
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gaaagacaaa tcacaggttc cgggatgagg acaccggctc tgaccaggag tttggggagc 780  
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agagaattct acatactaaa tctctctcct tttttaattt taatatttgt tatcatttat     1740
ttattggtgc tactgtttat ccgtaataat tgtggggaaa agatattaac atcacgtctt     1800
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aagaaataca gatatatctt aaaaaaaaaa aa                                     1892

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<210> 19  
 <211> 249  
 <212> RNA  
 <213> Homo sapiens

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<400> 19
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gcgggcccgc ccacagcccg agccgggag ggacgcgagc cgcgcgcccc ggucgggccu     180
ccgaaaccuau gaacuuucug cugucuuggg ugcauuggag ccuugccuug cugcucuacc     240
uccaccaug                                     249

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<210> 20  
 <211> 15  
 <212> RNA  
 <213> Artificial

<220>

## &lt;223&gt; Description of Artificial Sequence: Motif

&lt;220&gt;

&lt;221&gt; misc\_feature

&lt;222&gt; (1)..(15)

&lt;223&gt; n = a, t, g or c

&lt;400&gt; 20

nauuuuuuuu uuuan

15

&lt;210&gt; 21

&lt;211&gt; 49

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 21

ccgccagatt tgaatcgcg gacccgttgg cagaggtggc ggcggcggc

49

&lt;210&gt; 22

&lt;211&gt; 1141

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 22

ggcctctggc cggagctgcc tgggtcccaga gtggctgcac cacttccagg gtttattccc 60

tgggtgccacc agccttcctg tgggcccctt agcaatgtct taggaaagga gatcaacatt 120

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<210> 23  
 <211> 247  
 <212> DNA  
 <213> Homo sapiens

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 aggccacctc gtcggcgctc gcccgagtcc ccgcctcgcc gccaacgcca caaccaccgc 180  
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 gcagcag 247

<210> 24  
 <211> 1716  
 <212> DNA  
 <213> Homo sapiens

<400> 24  
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<210> 25  
 <211> 160  
 <212> DNA  
 <213> Homo sapiens

<400> 25  
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<210> 26  
 <211> 1306  
 <212> DNA  
 <213> Homo sapiens

<400> 26  
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<210> 27  
 <211> 216  
 <212> DNA  
 <213> Homo sapiens

<400> 27  
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 ccaccccgac cccgctgcgc acggcctgtc cgctgcacac cagcttggtg gcgtcttcgt 180  
 cgccgcgctc gcccggggt actcctgcgc gccaca 216

<210> 28  
 <211> 687  
 <212> DNA  
 <213> Homo sapiens

<400> 28  
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 agccttgctc attcttgagg agcattaagg tatttcgaaa ctgccaaagg tgctggtgcg 180  
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<212> DNA
<213> Homo sapiens

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<212> DNA
<213> Homo sapiens

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&lt;213&gt; Homo sapiens

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&lt;213&gt; Homo sapiens

&lt;400&gt; 32

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&lt;210&gt; 48

&lt;211&gt; 1192

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

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 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<400> 63  
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<210> 64  
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 <213> Homo sapiens

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 <213> Homo sapiens

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<210> 66  
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 <212> DNA  
 <213> Homo sapiens

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<400> 66
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<210> 67  
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 <212> DNA  
 <213> Homo sapiens

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<400> 67
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<210> 68  
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 <212> DNA  
 <213> Homo sapiens

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<400> 68
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 <223> Description of Artificial Sequence: Primer

<400> 69  
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<210> 70  
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<400> 70  
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<210> 71  
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 <212> DNA  
 <213> Artificial

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 <223> Description of Artificial Sequence: Primer

<400> 71  
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<210> 72  
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<223> Description of Artificial Sequence: Primer

<400> 72  
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<210> 73  
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<223> Description of Artificial Sequence: Primer

<400> 73  
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<210> 74  
<211> 30  
<212> DNA  
<213> Artificial

<220>  
<223> Description of Artificial Sequence: Primer

<400> 74  
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<210> 75  
<211> 66  
<212> DNA  
<213> Artificial

<220>  
<223> Description of Artificial Sequence: Polylinker

<400> 75  
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gaagac 66

<210> 76  
<211> 30  
<212> DNA  
<213> Artificial

<220>  
<223> Description of Artificial Sequence: Primer

<400> 76  
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<210> 77  
<211> 30  
<212> DNA

<213> Artificial

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<223> Description of Artificial Sequence: Primer

<400> 77  
 ttggcgaaga atgaaaatag ggttggtact 30

<210> 78  
 <211> 22  
 <212> DNA  
 <213> Artificial

<220>

<223> Description of Artificial Sequence: Primer

<400> 78  
 ggtgaaggtc ggagtcaacg ga 22

<210> 79  
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 <212> DNA  
 <213> Artificial

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<223> Description of Artificial Sequence: Primer

<400> 79  
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<210> 80  
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 <212> DNA  
 <213> Artificial

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<223> Description of Artificial Sequence: Primer

<400> 80  
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<210> 81  
 <211> 54  
 <212> DNA  
 <213> Artificial

<220>

<223> Description of Artificial Sequence: Primer

<400> 81  
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<210> 82  
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 <212> DNA  
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<211> 31  
 <212> DNA  
 <213> Artificial

<220>

<223> Description of Artificial Sequence: Primer

<400> 87  
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31

<210> 88  
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<223> Description of Artificial Sequence: Primer

<400> 88  
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22

<210> 89  
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 <212> DNA  
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<223> Description of Artificial Sequence: Primer

<400> 89  
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36

<210> 90  
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<223> Description of Artificial Sequence: Primer

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58

<210> 91  
 <211> 61  
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<223> Description of Artificial Sequence: Primer

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g

61

<210> 92  
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<223> Description of Artificial Sequence: Expression Vector

<400> 92

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